

## EAST Search History

| Ref # | Hits    | Search Query   | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|------------------------------------|------------------|---------|------------------|
| L1    | 57      | 726/6.cor.   | USPAT                              | OR               | OFF     | 2006/11/09 14:18 |
| L2    | 42      | 726/7.cor.   | USPAT                              | OR               | OFF     | 2006/11/09 14:18 |
| L3    | 64      | 726/19.cor.  | USPAT                              | OR               | OFF     | 2006/11/09 14:18 |
| L4    | 546989  | biometric WITH heartbeat or (heart adj beat) or pulse or (heart adj rate) or ekg | EPO; JPO; DERWENT                  | OR               | ON      | 2006/11/09 14:19 |
| L5    | 40808   | 4 WITH (difference subtract filter remov\$)                                      | EPO; JPO; DERWENT                  | OR               | ON      | 2006/11/09 14:22 |
| L6    | 0       | 1 and 5  | EPO; JPO; DERWENT                  | OR               | ON      | 2006/11/09 14:24 |
| L7    | 0       | 2 and 5  | EPO; JPO; DERWENT                  | OR               | ON      | 2006/11/09 14:25 |
| L8    | 0       | 3 and 5  | EPO; JPO; DERWENT                  | OR               | ON      | 2006/11/09 14:25 |
| S1    | 111     | 726/5.cor.   | USPAT                              | OR               | OFF     | 2006/11/09 14:17 |
| S2    | 243     | 726/5.ccls.  | USPAT                              | OR               | OFF     | 2006/05/18 17:15 |
| S3    | 15      | lange near daniel  | USPAT                              | OR               | OFF     | 2006/05/18 15:09 |
| S4    | 29      | lange near daniel  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2006/05/18 15:09 |
| S5    | 426062  | heartbeat or (heart adj beat) or pulse   | USPAT                              | OR               | ON      | 2006/05/18 17:32 |
| S6    | 32      | S5 WITH biometric  | USPAT                              | OR               | ON      | 2006/05/18 17:16 |
| S7    | 512     | biometric WITH signature   | USPAT                              | OR               | ON      | 2006/05/18 17:16 |
| S8    | 5       | S6 and S7  | USPAT                              | OR               | ON      | 2006/05/18 17:16 |
| S9    | 1096736 | heartbeat or (heart adj beat) or pulse   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | ON      | 2006/05/18 17:32 |
| S10   | 218     | S9 WITH biometric  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | ON      | 2006/05/18 17:32 |
| S11   | 1677    | S9 WITH signature  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | ON      | 2006/05/18 17:33 |
| S12   | 9       | S10 and S11  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | ON      | 2006/05/18 17:41 |

## EAST Search History

|     |      |                                 |   |    |     |                  |
|-----|------|---------------------------------|---|----|-----|------------------|
| S13 | 2    | "20020138743".pn.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 17:41 |
| S14 | 1    | S13 AND Signature               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 18:13 |
| S15 | 745  | biometric near Signature        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 17:34 |
| S16 | 85   | S9 and S15                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 20:11 |
| S17 | 1    | "6993378".pn. AND Signature     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 18:20 |
| S18 | 2    | "20030163710".pn. AND Signature | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 18:20 |
| S19 | 1677 | S9 with signature               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 20:11 |
| S20 | 22   | S19 and biometric               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/18 20:12 |
| S21 | 1    | "4,239,048".pn.                 | USPAT                                       | OR | OFF | 2006/05/20 17:27 |
| S22 | 2    | "20030128867".pn.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 17:34 |
| S23 | 1    | S22 and key                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 17:34 |
| S24 | 0    | S22 and encrypt\$               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 17:34 |
| S25 | 1    | S22 and signature               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 18:19 |

## EAST Search History

|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S26 | 0       | S22 and \$card                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 18:20 |
| S27 | 2       | "6,385,594".pn.                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/20 18:21 |
| S28 | 7055    | smartcard or (smart adj card)                   | USPAT                                       | OR | OFF | 2006/05/20 18:42 |
| S29 | 8640    | smartcard or (smart adj card)                   | USPAT                                       | OR | ON  | 2006/05/20 18:42 |
| S30 | 398     | S29 WITH biometric                              | USPAT                                       | OR | ON  | 2006/05/20 18:42 |
| S31 | 0       | S30 same (authoriz\$ WITH limit\$<br>WITH Time) | USPAT                                       | OR | ON  | 2006/05/20 18:43 |
| S32 | 13      | S30 and (authoriz\$ WITH limit\$<br>WITH Time)  | USPAT                                       | OR | ON  | 2006/05/20 18:43 |
| S33 | 434500  | heartbeat or (heart adj beat) or<br>pulse       | USPAT                                       | OR | ON  | 2006/09/22 17:26 |
| S34 | 1121777 | heartbeat or (heart adj beat) or<br>pulse       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/23 13:02 |
| S35 | 57034   | S34 near3 (compar\$ verif\$<br>authentikat\$)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 15:19 |
| S36 | 161     | S35 same signature                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 15:34 |
| S37 | 38      | S33 WITH biometric                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 15:34 |
| S38 | 12      | S37 and signature                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 16:08 |
| S39 | 2       | "20030128867".pn.                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 16:46 |
| S40 | 0       | S33 and S39                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/22 16:47 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S41 | 1       | S39 and signature  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/22 17:23 |
| S42 | 1121777 | heartbeat or (heart adj beat) or pulse                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/22 16:46 |
| S43 | 1       | S39 and S42  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/22 16:47 |
| S44 | 1       | S39 and compar\$   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/22 17:25 |
| S45 | 1       | S39 and database   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/22 17:25 |
| S46 | 14820   | (heartbeat or (heart adj beat) or pulse).ti.               | USPAT                                       | OR | ON | 2006/09/22 17:26 |
| S47 | 1       | S46 and biometric  | USPAT                                       | OR | ON | 2006/09/22 17:29 |
| S48 | 119     | S33 WITH authenticat\$                                     | USPAT                                       | OR | ON | 2006/09/22 17:29 |
| S49 | 1134529 | heartbeat or (heart adj beat) or pulse or (heart adj rate) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/11/07 17:42 |
| S50 | 57915   | S49 near3 (authenticat\$ verif\$ compar\$)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/23 13:03 |
| S51 | 10448   | S49 adj (authenticat\$ verif\$ compar\$)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/23 13:14 |
| S52 | 39      | S51 same signature   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/23 13:14 |
| S53 | 6       | ekg adj (authenticat\$ verif\$ compar\$)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/23 13:14 |
| S54 | 0       | S53 same signature   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/09/23 13:14 |

## EAST Search History

|     |         |  |   |    |     |                  |
|-----|---------|--|---|----|-----|------------------|
| S55 | 0       | S53 and signature  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/23 13:14 |
| S56 | 2       | "20030128867".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/09/23 13:47 |
| S57 | 34      | lange near daniel  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/11/07 17:41 |
| S58 | 1145867 | heartbeat or (heart adj beat) or<br>pulse or (heart adj rate) or ekg | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/07 17:42 |
| S59 | 1145867 | heartbeat or (heart adj beat) or<br>pulse or (heart adj rate) or ekg | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/09 09:51 |
| S60 | 138168  | S59 WITH (authenticat\$ verif\$<br>compar\$)                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:12 |
| S61 | 58415   | S59 near3 (authenticat\$ verif\$<br>compar\$)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:18 |
| S62 | 133     | S59 with (common near feature)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:17 |
| S63 | 109     | S62 and (authenticat\$ verif\$<br>compar\$)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/09 09:51 |
| S64 | 354     | S59 WITH biometric   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:27 |
| S65 | 294     | S64 and (authenticat\$ verif\$<br>compar\$)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:27 |
| S66 | 548119  | heartbeat or (heart adj beat) or<br>pulse or (heart adj rate) or ekg | EPO; JPO;<br>DERWENT                        | OR | ON  | 2006/11/09 14:18 |
| S67 | 74      | S66 and biometric  | EPO; JPO;<br>DERWENT                        | OR | ON  | 2006/11/09 09:51 |

## EAST Search History

|     |     |              |       |    |     |                  |
|-----|-----|--------------|-------|----|-----|------------------|
| S68 | 132 | 726/5.cor.   | USPAT | OR | OFF | 2006/11/09 10:27 |
| S69 | 104 | 713/186.cor. | USPAT | OR | OFF | 2006/11/09 10:27 |
| S70 | 155 | 382/115.cor. | USPAT | OR | OFF | 2006/11/09 10:27 |